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# Status of four Chinese species of Hydropsychinae (Trichoptera: Hydropsychidae)

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Much confusion has surrounded the common use of the species epithet "chinensis" among species of Hydropsychinae genera. Here we attempt to resolve some of these issues in order to clarify and stabilize the use of these names.

## Potamyia chinensis (ULMER, 1915)

Hydropsyche chinensis ULMER, 1915: 47-48, figs. 14-15. Described from China (Beijing and Honanfu). The holotype was borrowed, examined and is deposited in Museum für Naturkunde an der Humboldt-Universitat zu Berlin, Gemany. Potamyia chinensis (ULMER); changed combination by TIAN and LI, 1987: 128.

Hydropsyche echigoensis TSUDA, 1949: 20, 21-22, figs. 2a-c; synonymized by OLAH & al., 2006: 751. Described from Japan. The holotype of this species is lost.

Cheumatopsyche tienmuiaca SCHMID, 1965: 145, pl. VI figs. 5-7; synonymized by TIAN & al., 1996: 138; synonymy confirmed by OLAH & al., 2006: 751. Described from China (Zhejiang). The holotype male is in the Zoologisches Forschungsinstitut und Museum A Koenig, Bonn, Germany.

ULMER (1915) described *Hydropsyche chinensis* from China. It was transferred to *Potamyia* by TIAN & LI (1987). It is a true *Potamyia* species giving the name of the *Potamyia chinensis* Species Group (OLAH & al. 2006).

# Potamyia martynovi OLAH & MORSE, Nomen Novum

Potamyia chinensis MARTYNOV, 1930: 79-80, textfig. 23. Described from China ("Chungking" = Chongqing, Sichuan). The holotype was examined and is deposited in The Natural History Museum, London, United Kingdom.

Cheumatopsyche chekiangensis SCHMID, 1965: 142, 145, pl. VI figs. 3-4; New Synonym. Described from China (Zhejiang). The holotype was examined and is deposited in the Zoologisches Forschungsinstitut und Museum Alexander Koenig, Bonn, Germany.

Potamyia chekiangensis (SCHMID); changed combination by OLAH & al. 2006: 743, 751.

MARTYNOV (1930) described *Potamyia chinensis* from China. Cheumatopsyche chekiangensis SCHMID was transferred to *Potamyia* by OLAH & al. (2006). We have reexamined the holotype and paratype of *Potamyia chekiangensis* SCHMID, 1965, and found it almost identical with *Potamyia chinensis* MARTYNOV, 1930, such that we consider them the same species. However, *Potamyia chinensis* MARTYNOV, 1930, is a homonym of *Potamyia chinensis* (ULMER, 1915). Here we give a New Name *Potamyia martynovi* OLAH & MORSE for *Potamyia chinensis* MARTYNOV, and synonymize *Potamyia martynovi* OLAH & MORSE.

### Cheumatopsyche chinensis (MARTYNOV, 1930)

Hydropsychodes chinensis MARTYNOV, 1930: 80-81, textfigs. 24-25. Described from China ("Chungking" = Chongqing, Sichuan). The holotype is in The Natural History Museum, London, United Kingdom.

Cheumatopsyche chinensis (MARTYNOV); changed combination by MOSELY, 1939: 27.

Cheumatopsyche banksi MOSELY, 1942: 351-352, 361, figs. 26-28. Synonymized with Cheumatopsyche amurensis MARTYNOV by TIAN & al., 1996: 131, but synonymized with Cheumatopsyche chinensis (MARTYNOV) by OLAH & al., 2008a: 150. Described from China (Fujian). Holotype is examined and is deposited in The Natural History Museum, London, United Kingdom.

Potamyia parva TIAN & LI, 1987: 128. Changed combination and nomen novum for Hydropsychodes chinensis MARTYNOV, 1930, the changed combination having created homonymy with Potamyia chinensis MARTYNOV, 1930.

Martynov (1930) described Hydropsychodes chinensis from China. It was transferred to Cheumatopsyche by Mosely (1939). Later it was transferred to Potamyia by Tian & Li (1987) without examining the type and a replacement name Potamyia parva Tian & Li, 1987, was proposed because of the resultant homonymy with Potamyia chinensis (Ulmer, 1915). We have examined the holotype of Hydropsychodes chinensis Martynov, 1930, and it clearly belongs in Cheumatopsyche (Olah & al. 2006), giving the name for the Cheumatopsyche chinensis Species Group (Olah & al. 2008a). The reinstatement of Cheumatopsyche chinensis (Martynov, 1930) as the valid name of the species is consistent with the International Code of Zoological Nomenclature (International Commission on Zoological Nomenclature, 1999, Article 59.4).

#### Potamyia nuonga OLAH & BARNARD 2006

Potamyia parva TIAN & LI; TIAN & al., 1996: 140, figs. 218a-d. Reported from China (Guangdong, Sichuan, Yunnan). Specimen illustrated is of a species of Potamyia that is not Hydropsychodes chinensis MARTYNOV [now Cheumatopsyche chinensis (MARTYNOV)], and not a valid replacement name for Potamyia chinensis MARTINOV.

TIAN & al. (1996) cited Potamyia parva TIAN & LI, 1987, as the valid name for Potamyia chinensis MARTYNOV, 1930, but their drawings actually represent a previously undescribed species with thin and pointed hook formation at the apex of tergum X. Potamyia chinensis MARTYNOV, 1930 (now Potamyia martynovi OLAH & MORSE) is without any sign of hook formation on the apices of segment X. Later this animal with hook formation was described as Potamyia nuonga OLÁH & BARNARD from Vietnam (OLÁH & al. 2006). TIAN & LI'S (1987) nomenclatural act was based on a misidentification. The resulting name is invalidated herein, but the species to which this name was referred by TIAN et al. (1996) remained unnamed until OLAH & BARNARD (2006) named it based on other specimens. We re-examined the specimens from the works by TIAN & LI (1987) and TIAN et al. (1996) and discovered that the endothecal process is short, and not long as depicted by TIAN & al. (1996), corresponding well with the shape of the endothecal process of Potamyia nuonga OLAH & BARNARD.

New Records of *Potamyia nuonga* OLÁH & BARNARD: CHINA: 2 males, down stream of Bian-ao river, Huaping county, Yunnan (101.2679°, 26.6278°), 1280m, V-30, 1996, lighttrap, collected by Yang Lianfang, John Morse, and Du Yuzhou; CHINA: 2 males, branch of Jinshajiang river, Xinzhuang villiage (101.1937°, 26.5818°), Huaping county, Yunnan, 1280m, V-30, 1996, lighttrap, collected by Wang Beixin and Zhou Changfa; CHINA: 5 males, Xinzhuang river, Huaping county, Yunnan, 1280m, V-30, 1996, lighttrap, collected by Wang Xinhua.

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Nachträge und Korrekturen zum Atlas der europäischen Köcherfliegen und zum Verzeichnis der Köcherfliegen Europas (3).

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